IN THE CLAIMS:

Please enter the following claims as amended:

- 1. (original) A switched reluctance electrical machine comprising a salient pole stator and a salient pole carrier along with a plurality of coils for association with magnetic means, the stator and the carrier configured to allow relative motion in use between the stator and carrier, each coil including a tap to alter the effective number of turns in that coil dependent upon the speed of relative motion between the carrier and the stator.
- 2. (amended)A machine as claimed in claim 1 wherein the tap or taps are fixed in terms of the effective number of turns in its coils.
- 3. (amenede)A machine as claimed in claim 1 wherein the tap is arranged to reduce the effective number of turns in its coils by, typically, approximately a third of the total number of turns in that coil.
- 4. (original) A machine as claimed in claim 1 wherein the tap is individually determined for each coil of the plurality of coils in terms of incremental spacing to alter the effective number of turns in its coil.
- 5. (original) A machine as claimed in claim 1 wherein the tap is automatically adjusted relative to the carrier speed.
- 6. (original) A machine as claimed in claim 1 wherein the tap is arranged to provide substantially the same effective number of turns in each coil of the plurality of coils.
- 7. (original) A machine as claimed in claim 1 wherein the tap is manually adjustable in terms of the effective number of turns in its coil.
- 8. (original) A machine as claimed in claim 1 wherein the tap is adjustable dependent upon historical performance of the machine in terms of carrier speed.
- 9. (original) A machine as claimed in claim 1 in which the tap is adjustable through a control loop relative to the current carrier speed.
- 10. (original) A machine as claimed in claim 1 wherein the tap is switched into operation through an inertia switch dependent upon the carrier speed.

- 11. (original) A machine as claimed in claim 1 wherein the tap ensures that the number of turns effective in the coil are those furthest from the stator pole tip.
- 12. (original) An machine as claimed in claim 1wherein the torque or power output from that electrical machine is substantially constant for a range of speed.
- 13. (original) An machine as claimed in claim 1 wherein the carrier is a rotor.
- 14. (original) An machine as claimed in claim 1 in which the carrier is a linear beam.
- 15. (original) An machine as claimed in claim 1 wherein relative motion in use is due to appropriately energising the coils in sequence to constitute an electric motor.
- 16. (original) An machine as claimed in claim 1 wherein the relative motion in use is due to application of an external driving force in order to constitute an electric current generator.
- 17. (original) An machine as claimed in claim 1 wherein the magnetic means is permanent magnets or electro-magnetic assemblies configured in the carrier or stator.
- 18. (new) A switched reluctance electrical machine comprising a salient pole stator and a salient pole carrier along with a plurality of coils for association with magnetic means, the stator and the carrier configured to allow relative motion in use between the stator and carrier, each coil including a tap to alter the effective number of turns in that coil dependent upon the speed of relative motion between the carrier and the stator and wherein a control device is provided and which monitors the power output of the machine.